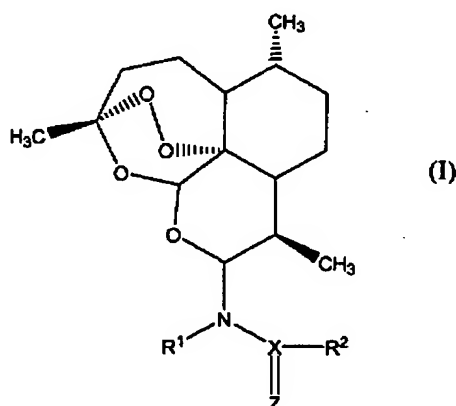


AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A compound of the formula I:



or a salt thereof, or a solvate thereof, or a solvate of a salt thereof,

in which

- R^1 represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group;
- X represents a carbon atom, a sulfur atom, a sulfoxide group $S=O$ or a group PR^3 , $P-O-R^3$ or $P-N(R^4)-R^3$ where R^3 and R^4 each independently represent a hydrogen

atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group;

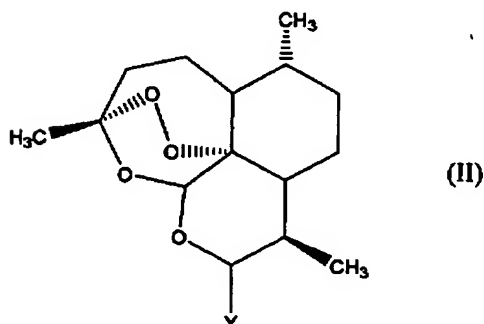
Z represents an oxygen atom, a sulfur atom or a group NR^5 where R^5 represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group; and

R^2 represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group, or a group $\text{N}(\text{R}^6)_2$, NHNH_2 , NR^6NHR^6 or $\text{NR}^6\text{N}(\text{R}^6)_2$, or a group OR^6 or SR^6 where each R^6 independently represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group, or a 10α -dihydroartemisinin group, or R^2 represents a group OR^7 or NR^6R^7 where R^6 represents a group as defined above and R^7 represents a bond attached as a substituent to R^5 together with the group $-\text{X}=\text{Z}-$ forming an optionally substituted heterocyclic group where Z represents a group NR^5 ; ~~or R^2 represents a bond attached as a substituent to R^1 together with the group $-\text{N}-\text{X}(\text{Z})-$ forming an optionally substituted heterocyclic group.~~

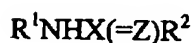
2. (Previously Presented) A compound according to claim 1 in which R^1 represents a hydrogen atom, a methyl group, ethyl group or longer straight-chain alkyl group or a branched alkyl group containing up to 9 carbon atoms.
3. (Previously Presented) A compound according to claim 1 in which X represents a carbon atom, a sulfur atom, or a group PR^3 , P-O-R^3 or $\text{P-N}(\text{R}^4)-\text{R}^3$ where R^3 and R^4 each independently represent a C_{6-18} aryl group or a 5- to 10-membered C-linked heteroaryl group or a 5- to 10-membered heterocyclyl- C_{1-6} alkyl group optionally substituted by one or more substituents selected from the group consisting of halogen atoms, hydroxyl, C_{1-4} alkyl, C_{2-4} alkenyl, C_{1-4} haloalkyl, C_{1-4} alkoxy, C_{1-4} haloalkoxy, amino, C_{1-4} alkylamino, di(C_{1-4} alkyl)amino and carboxyl groups.

4. (Previously Presented) A compound according to claim 1 in which Z represents an oxygen atom, or a group NR^5 where R^5 represents a hydrogen atom, a methyl group, ethyl group or longer straight-chain alkyl group or branched alkyl group containing up to 9 carbon atoms or a C_{6-18} aryl group or a 5- to 10-membered C-linked heteroaryl group or a 5- to 10-membered heterocyclyl- C_{1-6} alkyl group optionally substituted by one or more substituents selected from the group consisting of halogen atoms, hydroxyl, C_{1-4} alkyl, C_{2-4} alkenyl, C_{1-4} haloalkyl, C_{1-4} alkoxy, C_{1-4} haloalkoxy, amino, C_{1-4} alkylamino, $\text{di}(\text{C}_{1-4}$ alkyl)amino and carboxyl groups.
5. (Previously Presented) A compound according to claim 1 in which R^2 represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group, or a group OR^6 , SR^6 , NH_2 , NHR^6 , or $\text{N}(\text{R}^6)_2$ where each R^6 independently represents a methyl group, ethyl group or longer straight-chain alkyl group or branched alkyl group containing up to 9 carbon atoms, or is a C_{6-18} aryl group or a 5- to 10-membered C-linked heteroaryl group or a 5- to 10-membered heterocyclyl- C_{1-6} alkyl group optionally substituted by one or more substituents selected from the group consisting of halogen atoms, hydroxyl, C_{1-4} alkyl, C_{2-4} alkenyl, C_{1-4} haloalkyl, C_{1-4} alkoxy, C_{1-4} haloalkoxy, amino, C_{1-4} alkylamino, $\text{di}(\text{C}_{1-4}$ alkyl)amino and carboxyl groups.
6. (Previously Presented) A compound according to claim 1 in which R^1 represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group; X represents a carbon, phosphorus or sulfur atom Z represents an oxygen atom or a group NR^5 in where R^5 represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group; and R^2 represents a group OR^6 , SR^6 , NH_2 , NHR^6 , or NH^2 , or $\text{N}(\text{R}^6)_2$ where each R^6 independently represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group, or a 10α -dihydroartemisinyl group.

7. (Previously Presented) A compound according to claim 1 in which R^1 represents a hydrogen atom, X represents a sulfoxide group $S=O$, Z represents an oxygen atom, and R^2 represents a group NH_2 , or in which R^1 represents a hydrogen atom, X represents a carbon atom, Z represents a group NH , and R^2 represents a group NHR^6 where R^6 represents a hydrogen atom or an optionally substituted alkyl, cycloalkyl, aryl or aralkyl group; or in which R^1 represents a hydrogen atom, X represents a carbon atom, Z represents an oxygen atom, and R^2 represents a group NHR^6 where R^6 is a hydrogen atom or an optionally substituted alkyl, cycloalkyl, aryl or aralkyl group.
8. (Previously Presented) A process for the preparation of a compound of the general formula I according to claim 1 which comprises reacting a compound of the formula II comprising an artemisinin nucleus:



in which Y represents a group comprising an oxygen atom attached to the carbon atom of the artemisinin nucleus and also to a hydrogen atom or trimethylsilyl group, with a suitable halogenating agent to form a compound of the formula II in which Y represents a halogen atom; and, if desired, reacting the compound of formula II in which Y represents a halogen atom with an amine of the formula:



where R^1 , R^2 , X and Z are as defined in claim 1 to form a compound of the formula I.

9. (Canceled)
10. (Previously Presented) A pharmaceutical composition which comprises a carrier and a therapeutically effective amount of a compound according to claim 1.
11. (Canceled)
12. (Canceled)
13. (Previously Presented) A method for treating a disease caused by infection with a parasite which comprises administering to a host in need of such treatment a therapeutically effective amount of a compound according to claim 1.
14. (Previously Presented) A compound according to claim 2 in which R^1 represents a hydrogen atom, a methyl group or an ethyl group.
15. (Previously Presented) A compound according to claim 6 in which R^1 represents a hydrogen atom or an alkyl group; X represents a carbon or sulfur atom; Z represents an oxygen atom; R^6 represents a hydrogen atom or an optionally substituted alkyl or aryl group; or R^2 represents a group NH_2 or a group NHR^6 where R^6 represents an alkyl group, or a group $N(R^6)_2$ where R^6 represents identical or different alkyl groups.
16. (Previously Presented) A compound according to claim 15 in which R^1 represents a hydrogen atom or a methyl group or an ethyl group; or R^2 represents a group NH_2 or a group NHR^6 where R^6 represents an alkyl group, or a group $N(R^6)_2$ where R^6 represents identical or different alkyl groups.